**Chesapeake Bay Stewardship Fund**

**Stream Restoration Narrative Supplement**

**Instructions:** Save this document on your computer and complete the narrative in the format provided. The final narrative may not exceed six (6) pages, excluding tables and figures. Please retain the outline format below and adhere to section-by-section word limits, but you may delete the instructions associated with each element. Once complete, upload this document into the on-line application as instructed.

1. **Goals and Objectives:**
   1. What are the primary goals and objectives for the proposed project, especially in the context of existing watershed condition and stream function for the affected reach and realistic determination of restoration potential? *Examples of such objectives include restoring baseflow conditions, improving populations of target species, reducing streambank erosion, reducing sediment delivery and/or nutrients to downstream waters, restoring/enhancing the riparian buffer (in conjunction with stream restoration), creating floodplain (re)connection, among others.*
2. **Applicable Protocols:** 
   1. What relevant stream restoration protocols and associated qualifying conditions are being utilized to guide project design and determine creditable pollutant load reductions for the proposed projects? *Select all that apply.*

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| **Protocol** | **Protocol** | **Load Reduction Crediting** |
|  | 1. Credit for Prevented Sediment During Storm Flow | Annual mass nutrient and sediment reduction credit for qualifying stream restoration practices that prevent channel or bank erosion that would otherwise be delivered downstream from an actively enlarging or incising stream |
|  | 1. Credit for In-stream Nitrogen Processing During Base Flow | Annual mass nitrogen reduction credit for qualifying projects that include design features to promote denitrification during base flow within the stream channel through enhanced surface water/groundwater exchange (hyporheic zone) within the riparian corridor |
|  | (3) Credit for Reconnection to the Floodplain | Sediment and nutrient reduction credit for qualifying projects that reconnect stream channels to their floodplain over a wide range of storm events, from the small, high frequency events to the larger, less frequent events |

1. **Field Methods and Data Sources:**
   1. What field methods and data were used to support pollutant load reduction calculations?
   2. What additional fieldwork is necessary to finalize designs and obtain necessary permits?
2. **Existing Watershed Conditions and Impairments:**
   1. What are the important characteristics of the contributing drainage area, associated watershed condition, notable impairment(s), and known or suspected factors causing the impairment(s) for the project reach?
   2. What upland or drainage area BMPs have been considered or are being implemented as part of the project approach?
   3. As part of your watershed restoration approach, what other upland or upstream BMPs have been implemented or are being planned for future implementation?
   4. How does the proposed project address the primary cause(s) of stream impairment in this watershed?
3. **Functional Improvement:**
   1. How will stream function(s) be improved compared to the existing condition (considering [hierarchical frameworks for understanding stream function](https://stream-mechanics.com/stream-functions-pyramid-framework/) and assessments of existing stream function)?
4. **Restoration Design Approach and Team:**
   1. What specific design approach(es) (Natural Channel Design, Legacy Sediment/Valley Restoration, Regenerative Conveyance, etc.) are being explored or utilized and why?
   2. Who are the principals (e.g. individual, organizations, businesses) leading the proposed stream restoration design, including name, affiliation, and contact information?
5. **Post-Construction Maintenance:**
   1. What are your plans for post-construction maintenance, including responsible parties, associated resources (e.g., financial, personnel) for maintenance, and the approach for developing this plan?
   2. What known or anticipated metrics that will be used for post-construction monitoring?

**H. Restoration Plans and Designs:** As an “Additional Upload”, provide labeled plans with scaled base maps (ideally showing topographic data) showing: (1) drainage area to the project and delineating contributing land uses, (2) conceptual channel alignment and typical cross-sections with materials and construction methods, (3) conceptual planting plans and identification of how existing riparian areas will be impacted, and (4) photo evidence of site conditions relevant to the proposal. Letters of support or commitment may from project partners and project landowners may be provided as Additional Uploads.